

are electrically connected with a battery B via lead wires W1, W2 and W3.

With this cleaner 1F, the winding means 31F, the delivery means 33F and the cleaning means 20F are driven together by the operation of these motors M1, M2 and M3.

5 The configuration is such that the cleaning section rotating means 20F (cleaning section 21) reverse after the cleaning tape T advances a predetermined length and the cleaning means 20F (cleaning section 21) rotates by just a predetermined rotational angle. Due to this reverse action, twisting of the cleaning tape T between the winding means 21 and the posts 13b and 13c is released.

10 Accordingly, the cleaning surface of the cleaning tape T rotates while advancing and soiling on the connecting surface of an optical fiber connector can be removed.

Third Embodiment

15 FIG. 13 shows an optical fiber connector cleaner 501 according to a third embodiment of the present invention. This cleaner 501 comprises a housing 503, a cleaning section 505 disposed at the end of this housing 503 and an operating part 535 movable in the vertical direction, disposed on the upper surface of the housing 503.

20 The housing 503 is constructed in a longish form extending from front to rear thereof (the leftward-rightward direction in FIG. 13) to enable it to be used while held in one hand and can be disassembled from left to right.

 Hereinafter, the longitudinal direction of the housing 503 is referred to as the z direction and the direction of movement of the operating part 535 is referred to as the y direction.

25 FIG. 14 shows the cleaner 501 in an opened state. The cleaner 501 has, inside the housing 503, a cleaning section rotation means 525 that rotates an inner guide member 507 of the cleaning section 505, a winding means 545 that winds up used cleaning tape T and a delivery means 547 that delivers out cleaning tape T.

30 FIG. 15 is an expanded view of the front part of the cleaner 501, showing the longitudinal section of the cleaning section 505. FIGS. 16 (a), (b) and (c) are transverse sectional views of the cleaning section 505 cut along the lines XVIA, XVIB respectively.

35 As shown in FIG. 15, the cleaning section 505 includes the an inner guide member 507 around which the cleaning tape T runs, a tubular, outer guide member 509 that surrounds the cleaning tape T and the inner guide member 507 and a tubular guide sleeve 511 that surrounds the outer guide member 509.

 The inner guide member 507 has a base 507-a and an extending part 507b that